

CLAIMS

1. **(Previously Presented)** A processor-readable medium comprising processor-executable instructions for:

parsing an input file to recognize a file format of the input file, wherein the parsing repeatedly parses once with each of a plurality of component parsers contained within a compound parser, wherein each of the plurality of component parsers is configured for recognition of a specific file format by which an input file is configured, wherein the compound parser is extensible, and wherein extending the compound parser comprises adding an additional component parser configured to recognize an additional file format and executable code if present in a file of the additional file format;

checking contents of the input file, according to the recognized file format, to determine whether executable code exists within the input file, and wherein the checking comprises detecting executable code because its location within the input file is inconsistent with the recognized file format;

continuing to parse the input file until a component parser recognizes the file format of the input file or until all available component parsers within the compound parser have parsed the input file; and

sending a status in response to results of said checking, wherein sending a status comprises further instructions for:

sending a file-has-no-code status when the file format of the input file was recognized and no executable code was found;

sending a file-has-code status when executable code was found; and
sending a don't-know status when the file format of the input file was not
recognized;

wherein adding an additional component parser comprises instructions for:

identifying a new file format, wherein ability to recognize the new file
format is functionality to be extended to the compound parser;

configuring a new component parser according to the new file format,
wherein the new component parser is configured to recognize files
of the new format and also to recognize executable code in files of
the new format by locating executable code that is inconsistent with
the new file format; and

extending functionality of the compound parser by adding the new
component parser to the compound parser.

2-5. (Cancelled)

6. (Original) The processor-readable medium as recited in claim 1, wherein
sending the status comprises further instructions for sending the status to an
email program.

7. (Original) The processor-readable medium as recited in claim 1, wherein
sending the status comprises further instructions for sending the status to an
instant messaging program.

8. **(Original)** The processor-readable medium as recited in claim 1, wherein sending the status comprises further instructions for sending the status to an internet browsing program.

9-12. (Cancelled)

13. **(Currently Amended)** The processor-readable medium as recited in claim 1 ~~claim 11~~, additionally comprising further instructions for continuing to parse the input file with all remaining component parsers after at least one component parser recognizes the file format of the input file.

14. **(Currently Amended)** A method of detecting code-free files, comprising:
- identifying a new file format, wherein ability to recognize the new file format is functionality to be extended to a compound parser;
- configuring a new component parser according to the new file format, wherein the new component parser is configured to recognize files of the new format and also to recognize executable code in files of the new format by locating executable code that is inconsistent with the new file format; and
- extending functionality of the compound parser by adding the new component parser to the compound parser;
- wherein the compound parser, having extended functionality, is configured to operate to parse an input file by:

parsing the input file with the compound parser, wherein the compound parser is configured to include a plurality of component parsers, wherein each component parser is configured to recognize a specific data file format;

analyzing contents of the input file according to the recognized specific file format, where available, to determine if the input file contains executable code; and

sending a status in response to results of said analyzing, wherein sending the status comprises:

sending a file-has-no-code status when the file format of the input file was recognized and no executable code was found;

sending a file-has-code status when executable code was found;
and

sending a don't-know status when a file format of the input file was not recognized.

15. (Cancelled)

16. (Cancelled)

17. (Original) The method as recited in claim 14, additionally comprising sending the status to an email program.

18. **(Original)** The method as recited in claim 14, additionally comprising sending the status to an instant messaging program.
19. **(Original)** The method as recited in claim 14, additionally comprising sending the status to an internet browsing program.
20. **(Original)** The method as recited in claim 14, wherein parsing the input file comprises parsing the input file with each of the plurality of component parsers within the compound parser.
21. **(Previously Presented)** An apparatus for detecting code-free files, comprising:
- a compound parser configured to repeatedly parse an input file, wherein each component parser within the compound parser is configured to recognize executable code within a specific file format selected from among a group of data file formats; and
 - a controller to examine success of each of the component parsers to recognize the specific file format for which it was configured to recognize and to find executable code within the input file, wherein the controller is configured to send a status in response to results of said checking, wherein sending a status comprises:
 - sending a file-has-no-code status when the file format of the input file was recognized and no executable code was found;

sending a file-has-code status when executable code was found;
and
sending a don't-know status when the file format of the input file
was not recognized.

22. (Cancelled)

23. (Original) The apparatus as recited in claim 21, wherein the apparatus for detecting code-free files is additionally configured to send the status to an email program.

24. (Original) The apparatus as recited in claim 21, wherein the apparatus for detecting code-free files is additionally configured to send the status to an instant messaging program.

25. (Original) The apparatus as recited in claim 21, wherein the apparatus for detecting code-free files is additionally configured to send the status to an internet browsing program.

26. (Original) The apparatus as recited in claim 21, additionally configured to send the status to:

a firewall;

a host intrusion detector; or

a host vulnerability assessor.

27. **(Original)** The apparatus as recited in claim 21, additionally configured to send the status to a program selected from a group of programs, comprising:
- a backup program;
 - a CD/DVD burning program; and
 - a P2P file-sharing program.
28. **(Original)** The apparatus as recited in claim 21, wherein each of the component parsers is configured to recognize one of a plurality of data file formats.
29. **(Original)** The apparatus as recited in claim 21, wherein the compound parser is configured to allow extension by addition of a new component parser to the compound parser, wherein the new component parser recognizes a further file format and recognizes executable code within the further file format.
30. **(Cancelled)**